



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

40810-18

Date of Issuance:

4/21/15

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Irgaguard B5000

Name and Address of Registrant (include ZIP Code):

Catherine B. Rice  
Steptoe  
1330 Connecticut Avenue, NW  
Washington, DC 20036-1795

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

John Hebert, Chief  
Regulatory Management Branch 1, Antimicrobials Division  
(7510P)

Date:

4/21/15

EPA Form 8570-6

2. Be aware that proposed data requirements have been identified in a Work Plan. For more information on these proposed data requirements, you may contact the Team Leader for PM 36: [http://www.epa.gov/oppad001/contacts\\_ad.htm](http://www.epa.gov/oppad001/contacts_ad.htm)

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/30/2002

If you have any questions, please contact me at [hebert.john@epa.gov](mailto:hebert.john@epa.gov).



The Chemical Company

## IRGAGUARD® B 5000

Silver-Zinc Zeolite

A material preservative and antimicrobial for use in the Manufacture of polymer, plastic, and textile products. For Manufacturing/Fabrication Use Only.

### ACTIVE INGREDIENT:

Silver (as elemental) .....	0.44%
Zinc (as elemental) .....	1.36%
Other ingredients .....	98.20%
Total .....	100.00%

EPA Registration No. 40810-18  
 EPA Establishment No. 70404-AL-002  
     No. 70404-DEU-002  
     No. 040810-CHE-001  
     No. 82415-JPN-001  
     No. 84692-JPN-001  
     No. 69829-IL-001

## KEEP OUT OF REACH OF CHILDREN CAUTION

**\*\*See Technical Bulletin for detailed use information\*\***

IRGAGUARD® is a trademark of BASF

**Material:**  
**Batch Number:**  
**Net Weight: 20 kg / 44.1 lb**

**BASF Corporation**  
**100 Park Avenue**  
**Florham Park, NJ 07932**  
**For 24-Hour Emergency Medical Assistance:**  
**1-800-832-4357**

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **See Technical Bulletin for detailed use information.** Only for manufacture of or fabrication into antimicrobial pesticides for 1) the uses listed on this label and technical bulletin; 2) Uses for which USEPA has approved the required data and/or citations of data that the formulator has submitted in support of registration; and 3) Uses for experimental purposes that are in compliance with USEPA requirements. Irgaguard® B5000 is an antimicrobial powder for the manufacture of polymeric, plastic, and latex products only. It is designed to be used in materials that may be incorporated into the products on the technical bulletin for Irgaguard® B5000 during the manufacturing process to impart antimicrobial activity to the manufactured products. Irgaguard® B5000 suppresses the growth of bacteria, algae, fungus, mold and mildew which cause unpleasant odors, discoloration, staining, deterioration or corrosion of those manufactured products. Finished products containing Irgaguard® B5000 may not make public health claims relating to antimicrobial activity without EPA pesticide registration. When incorporated into treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses, germs or other disease causing organisms. Irgaguard® B5000 may be incorporated into materials that may be used in the finished product at 0.1 to 3.0% of Irgaguard® B5000 by weight. Contact BASF Corporation to determine the appropriate amount of Irgaguard® B5000 for individual finished products.

## STORAGE AND DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Do not contaminate water, food, or feed by storage and disposal.  
**Pesticide Storage:** Do not store in areas accessible to children. Keep away from direct sunlight.  
**Pesticide Disposal:** Wastes from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**Container Disposal:** Completely empty bags into processing equipment where the pesticide is used. Offer for recycling, if available. Otherwise dispose of empty bag and box in sanitary landfill or by incineration, if allowed by state and local authorities.

## Precautionary Statements KEEP OUT OF REACH OF CHILDREN CAUTION

### HAZARDS TO HUMANS

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

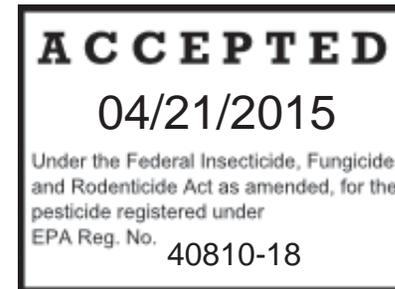
### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically addressed in an NPDES permit.  
 Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### FIRST AID:

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.





The Chemical Company

## Technical Bulletin

**Irgaguard® B5000**

**EPA Reg. No. 40810-18**

**Material preservative and antimicrobial agent for use in the manufacture of polymer, plastic, and textile products**

### **For Manufacturing/Fabrication Use Only**

IRGAGUARD® B5000 is an antimicrobial pesticide for the manufacture of polymeric, plastic, and latex products only. It is designed to be incorporated into the materials for manufacture into final products listed below during the manufacturing process to impart antimicrobial activity to the manufactured products. IRGAGUARD® B5000 suppresses the growth of bacteria, algae, fungus, mold and mildew which cause unpleasant odors; discoloration, staining, deterioration or corrosion of those manufactured products.

Finished products containing IRGAGUARD® B5000 may not make public health claims relating to antimicrobial activity without EPA pesticide registration. When incorporated into treated articles, this product does not protect users of any such treated article or others against foodborne or disease causing bacteria, viruses, germs or other disease causing organisms.

IRGAGUARD® B5000 may be used in material that may be incorporated into the finished product at 0.1 to 3.0% of IRGAGUARD® B5000 by weight. Contact BASF Corporation to determine the appropriate amount of IRGAGUARD® B5000 for individual finished products.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Use only under agreement with BASF Corporation. IRGAGUARD® B5000 is intended for use as an additive into the following materials and substances as part of the manufacturing process in order to provide built-in antimicrobial activity in manufactured and finished products.

**NON-FOOD CONTACT USES: APPLICATIONS AND TYPES OF MATERIALS**

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
<p>Plastics Including films, sheets, slabs, and molded plastic parts</p>	<p>Appliances and equipment Automobile parts Brush bristles Brush handles Building materials (such as hardware, handles) Conveyor belts Countertops Floor coverings Flooring Footwear (including boots, sports equipment and tools) Gaskets General purpose containers Indoor and outdoor furniture Insulation for wire and cable Insulators Kitchen and bathroom hardware Liners</p> <p>Mats Mops Non-woven fabrics Plastic film Plumbing supplies and fixtures (including toilet bowl seats) Protective covers Shower curtains Siding for housing Sinks Sponges Tape Tiles Tubing Vacuum cleaner bags Waste containers</p>

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
<p>Fibers</p>	<p>Apparel (such as umbrellas, outerwear, sportswear, sleepwear, socks and hosiery, caps, undergarments, inner liners for jackets, trim for outerwear and garments, uniforms, outerwear, gloves, aprons, coats, and shoes) Conveyor belts Industrial and other Household Items (such as artificial leather, filters, book covers, mops, cloth for sails, ropes, tents and other outdoor equipment, tarps, awnings, bags, brush bristles, commercial and industrial wipes and fabrics, sponges, wiping cloths) Interior furnishings (such as mattress cover pads and filling, pillow covers, sheets, blankets, fiberfill for quilts and pillows, curtains, draperies, carpet and carpet underlay, rugs, upholstery, towels, wall covering fabrics, cushion pads, sleeping bags) Packaging Transportation items (such as automotive and truck upholstery, carpeting, rear decks, trunk liners, convertible tops, interior liners)</p>

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
Coatings, Films, and Laminates	<p>Appliances Automotive and vehicle parts Barrier fabrics Building materials and components (such as walls, wallboard, floors, concrete, siding, roofing, shingles, hardware, floors, ceilings, commercial and industrial applications) Collection and storage equipment (such as conveyor belts, piping systems, silos, tanks, and process vessels) Countertops Furniture General purpose containers Glazing for cement tile Glazing for vitreous china used in plumbing fixtures (such as toilets, sinks, countertops) Industrial equipment Natural and synthetic fibers and fabrics Packaging Paper products (such as wipes, tissues, wall coverings, towels, book covers) Sinks</p>

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
Adhesives and Sealants	<p>Appliances Automotive and vehicle parts Bathrooms Cardboard Ceramic tile Construction materials Glazing for windows Grout and joint compound Paper Pipe sealant and insulating materials Plastic Plumbing adhesives Rubber Sealants for pipes Showers Wood Wood and plastic composites</p>

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
Miscellaneous applications	<p>Cat litter Drainage and sewage pipe Flooring Plaster Sinks Stucco Tile Toilets</p>

APPLICATION	TYPES OF FINISHED PRODUCTS
Heating, Ventilation and Air Conditioning (HVAC)	HVAC equipment and related materials including air handlers, plenums, coils, fins, insulation, rigid or flexible ducts, drain pans, duct support mechanisms, diffusers, filters, heat exchangers, air purifiers, supplemental articles used in the assembly of HVAC systems such as gaskets, fixtures, sealants, adhesives, and HVAC reinforcing as well as parts and components thereof. These articles could be constructed of fibrous materials (textiles), non-woven plastic, or coated metal material. For use only during manufacture of the article

**FOOD CONTACT USES: APPLICATIONS AND TYPES OF MATERIALS**

Irguard B5000 may be used as an antimicrobial additive in the polymeric manufactured products listed below that are used for manufacturing, packing, packaging, transporting, handling and/or holding food if such use is not intended to have any microbial effect in the food itself. Do not incorporate Irguard B5000 into any food contact polymer intended for commercial food packaging uses unless that food contact polymer and use condition are approved and listed in 21 CFR 174-186 (inclusive), or in the United States Food and Drug Administration's "Food Contact Substance Notification System."

APPLICATION	TYPES OF FINISHED PRODUCTS	
Plastics Including films, sheets, slabs, and molded plastic parts	Appliances and equipment Beverage dispensing equipment Beverage processing equipment Bottles Brush bristles Brush handles Containers Conveyor belts Countertops Food handling equipment Food processing equipment Food storage containers Food trays and covers Food packaging Food processing utensils Gaskets General purpose containers Kitchen and bathroom hardware Liners	Mats Non-woven fabrics Plastic film Plumbing supplies and fixtures Protective covers Sinks Sponges Tape Tiles Tubing

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
<p>Fibers</p>	<p>Apparel (such as outerwear, uniforms, gloves, aprons, coats)                      Bags                      Containers                      Conveyor belts                      Table cloths, napkins, wiping cloths                      Mops, sponges                      Brush bristles                      Filters                      Packaging (including bags, sacks, wraps, cushion, absorbent materials and containers)                      Kitchen: commercial and industrial wipes and fabrics                      Food packaging</p>
<p>Coatings, Films, and Laminates</p>	<p>Appliances and equipment                      Barrier fabrics                      Building materials and components                      Collection and storage equipment (such as conveyor belts, piping systems, silos, tanks, and process vessels)                      Cookware                      Countertops                      Food wrap (including coated deli paper, coated meat interleavers and plastic wrap)                      General purpose containers                      Glazing for cement tile                      Glazing for vitreous china used in plumbing fixtures (such as sinks, countertops)                      Industrial equipment                      Natural and synthetic fibers and fabrics                      Packaging                      Paper products (such as wipes, tissues, wall coverings, towels, plastic film)                      Sinks</p>

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
<p>Adhesives and Sealants</p>	<p>Appliances                      Cardboard                      Ceramic tile                      Grout and joint compound                      Paper                      Pipe sealant and insulating materials                      Plastic                      Plumbing adhesives                      Rubber                      Sealants for pipes                      Wood                      Wood and plastic composites</p>

**DRINKING WATER CONTACT USE**

Irgaguard B5000 may be used for the human drinking water contact uses listed below. The additive may be incorporated into food bowls and water bowls, dishes, and other containers used by domestic animals. Do not use for any food or drinking water applications involving non-domestic animals.

<b>APPLICATION</b>	<b>TYPES OF FINISHED PRODUCTS</b>
Plastics; Fibers; Coatings, films, and laminates; Adhesives and sealants	Including ice making equipment (water pans, piping, tubing, guards, ice storage bins, trays, ice scoops, buckets, valves, and gaskets); drinking water contact materials (water bottles, cups, gaskets, plumbing fixtures, storage tanks and vessels, water piping, tubing, valves, spigots, coolers, water dispensing components, housing units, and water filter components).

**CHEMICAL AND PHYSICAL PROPERTIES**

Appearance: White to grayish-white powder

Odor: None detectable

Density: 3.35 g/cm<sup>3</sup> @ 25° C